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SEQUENCE LISTING

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Van Endert, Peter
Jung, Gunther-Gerhard

<120> AUTOREACTIVE PEPTIDES FROM HUMAN GLUTAMIC ACID-DECARBOXYLASE
(GAD)

<130> 2923-393

<140> US 08/981824

<141> 1998-09-18

<150> PCT/EP/96/03093

<151> 1996-07-15

<150> DE/195 25 784.7

<151> 1995-07-14

<160> 43

<170> PatentIn version 3.2

<210> 1

<211> 20

<212> PRT

<213> Homo sapiens

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Asp Val Asn Tyr Ala Phe Leu His Ala Thr Asp Leu Leu Pro Ala Cys
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Asp Gly Glu Arg
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Ser Asn Met Tyr Ala Met Met Ile Ala Arg Phe Lys Met Phe Pro Glu
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Val Lys Glu Lys
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<212> PRT
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Asn Trp Glu Leu Ala Asp Gln Pro Gln Asn Leu Glu Glu Ile Leu Met
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His Cys Gln Thr
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Leu Ser Thr Gly
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Pro Arg Tyr Phe Asn Gln Leu Ser Thr Gly Leu Asp Met Val Gly Leu
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Ala Ala Asp Trp
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Thr Tyr Glu Ile Ala Pro Val Phe Val Leu Leu Glu Tyr Val Thr Leu

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Lys Lys Met Arg
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Asp Phe Leu Ile
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Ile Leu Ile Lys Cys Asp Glu Arg Gly Lys Met Ile Pro Ser
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Leu Ala Phe Leu Gln Asp Val Met Asn Ile Leu Leu Gln Tyr
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Tyr Asp Leu Ser Tyr Asp Thr Gly Asp Lys Ala Leu Gln Cys
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Val Ser Tyr Gln Pro Leu Gly Asp Lys Val Asn Phe Phe Arg
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Leu Ala Ala Asp Trp Leu Thr Ser Thr Ala Asn Thr Asn Met
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Leu Leu Tyr Gly Asp Ala Glu Lys Pro Ala Glu Ser Gly Gly
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Val Asn Tyr Ala Phe Leu His Ala Thr Asp Leu Leu Pro Ala
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Leu Leu Gln Tyr Val Val Lys Ser Phe Asp Arg Ser Thr Lys
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Phe Thr Tyr Glu Ile Ala Pro Val Phe Val Leu Leu Glu Tyr
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Leu Glu Tyr Val Thr Leu Lys Lys Met Arg Glu Ile Ile Gly
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Asn Met Tyr Ala Met Met Ile Ala Arg Phe Lys Met Phe Pro
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Lys Ile Trp Met His Val Asp Ala Ala Trp Gly Gly Gly Leu
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Trp Gly Gly Gly Leu Leu Met Ser Arg Lys His Lys Trp Lys
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Glu Gly Tyr Glu Met Val Phe Asp Gly Lys Pro Gln His Thr
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Arg Tyr Phe Asn Gln Leu Ser Thr Gly Leu Asp Met Val Gly
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Trp Leu Thr Ser Thr Ala Asn Thr Asn Met Phe Thr Tyr Glu
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Thr Ala Asn Thr Asn Met Phe Thr Tyr Glu Ile Ala Pro Val
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Leu Val Ser Ala Thr Ala Gly Thr Thr Val Tyr Gly Ala Phe
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Tyr Ile Pro Pro Ser Leu Arg Thr Leu Glu Asp Asn Glu Glu
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Val Ile Ser Asn Pro Ala Ala Thr His Gln Asp Ile Asp Phe
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Gly Met Ala Ala Leu Pro Arg Leu Ile Ala Phe Thr Ser Glu His Ser
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His Phe Ser Leu Lys Lys Gly Ala Ala
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Glu Arg Gly Lys Met Ile Pro Ser Asp Leu Glu Arg Arg Ile Leu Glu
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Ala Lys Gln Lys
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<223> Xaa = an optional sequence selected from 1 to 10 of any amino acids

<400> 31

Xaa Pro Glu Val Lys Thr Lys Xaa
1 5

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Xaa Pro Glu Val Lys Glu Lys Xaa
1 5

<210> 33
<211> 14
<212> PRT
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<400> 33

Ser Asn Pro Ala Ala Thr His Gln Asp Ile Asp Phe Leu Ile
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<222> (1)..(45)

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Cys Ala Val Asn Ile Ala Gly Gly Ser Gln Gly Asn Leu Ile Phe
1 5 10 15

45

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95 <400> 35
Cys Ala Val Asn Ile Ala Gly Gly Ser Gln Gly Asn Leu Ile Phe
1 5 10 15

<210> 36
<211> 42
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<222> (1)..(42)

<400> 36
tgt gca gca agg gcc atg aac aga gat gac aag atc atc ttt
Cys Ala Ala Arg Ala Met Asn Arg Asp Asp Lys Ile Ile Phe
1 5 10

42

<210> 37
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<212> PRT
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<400> 37
Cys Ala Ala Arg Ala Met Asn Arg Asp Asp Lys Ile Ile Phe
1 5 10

<210> 38

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<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (1)..(42)

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tgc agt gct agt gcg ggt tgg agc aat cag ccc cag cat ttt
Cys Ser Val Ser Ala Gly Trp Ser Asn Gln Pro Gln His Phe
1 5 10

42

<210> 39
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<212> PRT
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<400> 39

Cys Ser Val Ser Ala Gly Trp Ser Asn Gln Pro Gln His Phe
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<210> 40
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<223> n = unknown

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Cys Xaa Ser Ser Leu Asp Ala Ser Gly Ser Tyr Asn Glu Gln Phe Phe
1 5 10 15

48

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<220>
<221> misc_feature
<222> (2)..(2)

<223> The 'Xaa' at location 2 stands for Thr, Ala, Pro, or Ser.

<400> 41

Cys Xaa Ser Ser Leu Asp Ala Ser Gly Ser Tyr Asn Glu Gln Phe Phe
1 5 10 15

<210> 42

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> PCR primer

95 <400> 42

cactgaagat ccatcatctg

20

<210> 43

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<212> DNA

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<223> PCR primer

<400> 43

tagaggatgg tggcagacag

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